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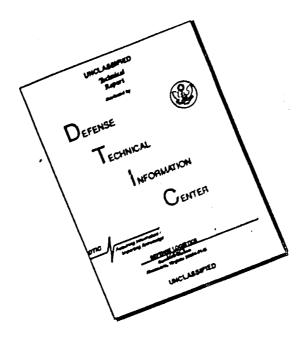
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DEPARTMENT OF THE ARMY OFFICE OF THE ADJUTANT GENERAL WASHINGTON, D.C. 20310

IN REPLY REFER TO

AGAM-P (M) (5 Mar 68) FOR OT RD 674123

7 March 1968

SUBJECT: Operational Report - Lessons Learned, Headquarters, 20th Engineer Battalion (Combat), Period Ending 31 October 1967

SEE DISTRIBUTION

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2. Information contained in this report is provided to insure appropriate benefits in the future from lessons learned during current operations and may be adapted for use in developing training material.

BY ORDER OF THE SECRETARY OF THE ARMY:

1 Incl

This document transmittal 25

finneth G. Nickham KENNETH G. WICKHAM Major General, USA

The Adjutant General

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DEPARTMENT OF THE ARMY HEADQUARTERS, 20TH ENGINEER BATTALION (CBT) APO 96318

EGCA_OP

13 November 1957

SUBJECT: Operational Report - Lessons Learned (RCS CSFOR...65), for Quarter Period Ending 31 Outcome 1967

JHP.U:

Commanding Officer
937th Engineer Group (Cbt)
APO 96318

Commending General 18th Engineer Brigade APO 96377

Commanding General U. S. Army Engineer Command, Vietnam (Prov.) APO 96375

Commanding General
United States Army, Vietnam
ATTN: AVHGC_DH
APO 96307

Commander in Chief United States Army, Pacific ATTN: GPOP-OT APO 96558

10: Assistant Chief of Staff for Force Development Department of the Army (ACSFOR DA) Washington, D. C. 20310

Section L. Significant Organization or Unit Activities:

1. General:

a. At the beginning or the report period, the Battalion Hondquarters, Headquarters Company, Company B. Company D, and the 584th Engineer Company (LE) were located in the 4th Division's Camp Enari Base Camp, Pleiku, Republic of Viet Nam. 584th Engineer Company (LE) was involved in Quarry operations at Danner Quarry (ZA075311) and on 15 October resumed the paving of 4th Division Camp Enari Base Camp interior reads. This project had been discentized

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1 January 1970

FOR OT RO 674123

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since 25 June due to the monsoon season. Company B was involved in the construction of a 177° x 192° Aircraft Maintenance Hangar. During the reporting period, the earthwork was completed, footers were poured, and erection was completed, except for approximately 10% of the siding. Company D was involved in general Base Camp Construction which included the AFRI Radio Station, 40° x 130° NCO Club, and numerous other projects.

- b. The monsoon rains prevented Company A from completing the site of Due Co Airfield (YA8425). The maintenance of Highways QL-19W and Was carried on throughout the monsoon season. On or about 15 August, Company A assumed the repair and maintenance responsibility for a 600 meter impassable section of the interior road net through Jackson's Hole (YA8931, CP, 1st Brigade, 4th Infantry Division). The project involved ditching, draining and shaping the 600 meters of road before placing the necessary quantity of crushed rock. The road work was done mostly by hand during heavy rain. On or about 20 August, the impassable section of the road was opened for traffic, allowing desperately needed 4th Division supply vehicles into Jackson Hole. From 15 August to 20 September, Company A hauled and placed 2,000 ou yds of 4" (_) crushed rock on the aforementioned stretch of road.
- c. At the beginning of the report period, Company C was located at Panner Guarry (ZAC75311) and was responsible for maintenance of QL-19W from YA9829 to AR7838. On 3 August and again on 15 September, the Bailey Bridge at ZAC99299 (120° DD) collapsed under a combination Load of a VTR and M+3A1 tank and a VTR respectively. Company C dirverted its effort to repairing an existing bypass at the bridge site, and supporting the 509th Pannel Bridge Company in replacing the destroyed bridge. On 3 August, the 584th Engineer Company (IE) assumed responsibility for the portion of QL-19W (MSR) from the bridge site, East to Camp Enari. This MSR mission was assigned the Light Equipment Company, while C/20 was engaged in repairing the bridge. 594th IE Company retained the MSR maintenance responsibility until 26 September 1967.
- d. On 19 August, Company C and the 584th Company (LE) moved from Danner Quarry to Wooly Bully Quarry (ZA057314). The new bivouse site was prepared by 1st Platoon, Company C. During the move the crusher was deadlined for four days.
- e. On 22 September, Company C and Company D exchanged tasks and locations. Company C took over Company D's Base Camp projects and Company D assumed responsibility for a portion of DL19W. Among Company C's projects was the construction of 88 helicopter revetments for the 7/17th Air Cavalry Squadren scheduled to arrive in RVN on 23 October. A 20 October deadline for this project was established, and met with no great difficulty.

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- f. With the shift of the 1st Brigade, 4th Infantry Division from Jackson Hole, to the Casis, 240. Gompany A moved ene plateon to Weely Bully Quarry on 17 September to prepare a Company sized bivouse area. Co. A relocated to Fase Camp on Z. September and assumed extends small projects. On 21 October 1567, Company A opened its CP at the Weely Bully Quarry, assumed the mission of MSR maintenance and upgrading of QLICW from the west to Duc Co (YA8425).
- g. The 35th Engineer Platoon (Land Clearing) was attached to 20th Engineer Battalion and closed Camp Engri Sase Camp 19 August. During the next week the first and second squads were supporting the 70th and 299t. Engineer Battalions respectively. The third squad remained standed for land Clearing operations to 20th Engineer Battalien for work Fin the Mooly Endly Quarry on 25 August. The third squad completed clearing 457 acres around the Quarry area on 7 September, and was re-assigned to the 70th. Engineer Battalian for clearing operations on QL195. This squad returned to QUON of 20th Engineer Battalian on 25 September after completing 259 across of clearing for 70th Engineer Battalian. From 2 through 22 October, 535 across were cleared by the third squal on QL148 and 2,397 across on FL60. At the out of the reporting period this squad is clearing QL148, while the first platoon of Company A upgrades; the readow As of 24 October, the second squad of the 35th Engineer Platoon (land Clearing) was re-assigned from the 70th Engineer Battalion to this Buttalion for work at the Edap Enang resettlement willage, ZA0331.

h. As of 31 October, Companies A, D, and the Guarry Platoon of 500th company (IE) were located at Vocly Bully Quarry (ZA057314). The remainder of the 20th Engineer Battalien was located at Camp Enari Base Camp.

Projects present y under Construction include i

- (1) Grusher and Guarry Operations, 85-937/V..66.
- (2) Operational Requirements, 50-937/V-67.
- (3) LOC Resteration and Maintenance, CD 98-200 15-T.JMA.
- (4) Helicopter Revetments. Camp Enaris 49-937/V-67.
- (5) 4th Divisich Interior Road Paving and Support, OICC P-815/07.
- (6) Rotary Wing Aircraft Hangar, CD 63-215-03-T-6S.
- (7) AFRT Radio Station, CD 63-223-04-T-6S.
- 8) 4th Division Asses Road, OICC-0-458.

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- (9) Water Pump Station and Pipeline, CD 66.251DC-937.
- (10) Water Well Fill Point, Catecka, 32-937/V-66.

2. Personnel:

- a. At the beginning of the report period, the 20th Engineer with the 584th Engineer Company (IE) attached, had an assigned strong Officers, 3 Warrant Officers, and 880 Enlisted Personnel.
- b. In August, senior NCO replacements were in short supply. Established and of October, however, most NCO vacancies were filled. A Battallion Mauricone. Officer was assigned in October. The position of Battallion Personnel Officer has been unfilled for the past four months.
- o. At the close of the report period, the assigned strength of the 20th Engineer Battalion (Cot), and the attached 584th Engineer Company (LE), and the 35th Engineer Platoon (Land Clearing) was as follows:

UNIT	OFFICERS	W. O.	B. M.
with Engr Bn (Cot)	. 36	2	716
584th Engr Co (IE)	.4,	,1,	184
35th Engr Plt (Jand Clearing)	, .	٠ ـــ٥	57
ASSIGNED TOTAL	41	3 .	957

- d. During the report period the Bn suffered, 0 KIA and 9 WIA.

 Personnel of the Battalion have been receiptionts of one Sizver Star Medal,

 Peronse Star for Valor, 16 Army Commendations with "V" device; 17 Bronze

 Star Medals for meritorious service, 2 Air Medals and 11 Army Commendation Medals.
- 49 civilian carpenters (MCA) and 40 tire repairmen, supervisors, kitchen police, etc., (O&MA). In addition, an average of 120 AIK laborers were utilized daily by the Battalion.
- f. In October, the Finance Section of the Battalion with three finance clerks, relocated to 126th Finance Section at Camp Schmidt, Pleiku, Republic of Viet Nam. The purpose of this move was to centralize the firance activities of the 937th Engineer Group and other units in, and near, the city of Pleiku.

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g. The Battalion Chaplain has made religious services availatell men of the Battalion. Catholic services are held three times per week. The average weekly attendance of Catholic and Protestant, combined has been 375. The men of the Tewach faith have attended one retreat and have had one service per month. Pible study classes are held weekly. The Base has a choir for their service which practices each week. On Sunday religious faith singing of hymns, and serving of refreshments.

3. Intelligence & Security:

- a. During the reporting period the Battalion Intelligence Section continued to maintain contact with major units in the Pleiku area to obtain current combat engineer intelligence. Goordination was closely maintained with the 4th Engineer Battalion to eliminate a duplication of effort on reconnaisance missions: Soveral joint recons were made and the intelligence sections frequently exchanged information regarding intelligence gathered in the AO.
- b. In a program dating back to a 19 April 1967 OPLAN, the Battalion has been integrated into the 4th Infantry Division's Civil Affairs Villago isitation Program. The intelligence section has been assigned the responsibility of providing a team to visit the designated villages and to submit periodic progress reports to the 8.5. 1st Brigade, 4th Infantry Division. The team leader of the Visitation Team is provided by the S.Z section with the other members and transportation being provided by the line companies of 20th Engineer Battalion. The mission of this program is three folds (1) To win the hearts and minds of the people. (2) to improve their standard of living accommically and medically, and (3) to collect information of intelligence ratue. The program has also shown a fourth and very valuable asset; soldiers participating in the program have learned much about the local people and their difficulties.
- c. With an increase of mining incidents during the last month of the report period, the Battalian S.2 section has embarked upon a data collection and correlation program on all mining incidents. Preliminary results, by based upon thus far incomplete data, have indicated that it may become possible to predict with some degree of accuracy the most likely dates and places where mining incidents on Highway O-19W will occur. The data considered thus far in the project includes:
 - (1) Location of mine.
 - (2) Number and types of miner.
 - (3) Date when found.

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- (4) Patters of mines.
- (5) Weather during period where miles were found.
- (6) Iunar cycles
- (7) Density of military and civilian traffic.
- (8) Trafficability of area involved.
- (9) Type of readway and surface conditions.
- (10) Use and frequency of patrols and H&I fires in areas concern
- (11) Period (day or night) when mines were planted.
- d. The existing Camp Enari OPLAN commits the Pattalion to function guards to 10 bunkers on perimeter defense. This requirement is fulfilled by providing one officer or NCO (E_7 or above) and 32 enlisted mon. daily from 1500 hours to 0900 hours the following morning.
 - 4. Operations and Training:
- period in Base Camp. The remainder of the period Company A was engaged in MSR maintenancement upgrading. Elements of Company B remained in Base Camp curing the entire report period, however, two plateons of the Company deployed on an operational support mission from 11 October to 19 October. Company and Company Deach spent half of the period in Base Comp and the remainder in the field.
- b. In order to have the earlier buildings constructed on Comp Enarch accepted by the Post Engineer, this Battalian was required to correct known structural and electrical building deficiencies. During this period 131 buildings were completely wired and the structural deficiencies on 359 buildings were corrected by an R&U electrical team of 1 Specialist Fifth Class and 5 EM and one 10 EM Carpenter Team.
- c. During this report period, the 4th Division has continued its active Self-Help buildings Program. The Battalion Prefab Yard has produced in the report period, 85 buildings (20° x 80°) with 49 indigenous empenters supervised by 5 EM. Total square footage of facilities provided the 4th Infantry Division and supporting units during this period are:
 - (1) 2,600 sq ft of Mess Halls.
 - (2) 4,000 sq ft of Administrative facilities.

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- (3) 65,200 ag ft of Thoug Housing.
- (4) 9,600 sq ft of Community facilities.
- (5) 4,480 sq ft of Maintenance facilities.
- (6) 55,860 st ft of Mortar Bunkers.

d. In addition to the Self-Help achievements of the 4th Inferior Division, units of the 20th Engineer Battalion have constructed:

- (1) 1 each 40' x 120' NCO Club.
- (2) 2 each 26 bec 65 Maintenance buildings.
- (3) 2 each 26' x 52' Maintenance buildings.
- (4) 1 each 26' x 78' Maintenance building.
- (5) 1 each 20' x 30' Ice Gream Plant.
- (6) 1 each 20' x 100' Troop Billet.
- (7) 1 each 20° x 20° Airfield Control Tower.
- (8) 1 each 24 x 40 Transmitter Building.
- (9) 1 each 20' x 40' Generator Shed.
- (10) 1 each 177 x 192 Aircraft Hangar (under construction)
- (11) 1 each 80' x 150' Service Club (under construction)
- (12) 1 each 24' x 60' Chapel (under construction)
- e. Pads poured:
 - (1) 1 each 40° x 120°
 - (2) 1 each 2' x 118' x 1.5" (Hangar foeters)
 - (3) 1.each 21. x 87 x 9" (Hanger footers)
 - (4) 1 each 175' x 2' x 1.5' (Hangar foecers)
 - (5) 1 each 135' x 2' x 1.5' (Hangar feoters)

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- (6) 2 each 26" x 65"
- (7) leach 26' x 78'
- (8) 1 each 26' x 52'
- (9) 2 each 18' x 88'
- (10) 1 each 24' x 60'
- (11) 1 each 24 x 40'
- (12) 1 each 20' x 60'
- (1.3) 1 each 20' x 40'
- (14) 1 each 20' x 30'
- (15) 1 each 10' x 20'
- (16) 2 each 20' x 48'
- (17) 1 each 15' x 40'

5. Operational Support Missions:

- a. On 1 August seasonal rains hampered the effective completion of the Duc Co Airfield (YAS425), and Company A diverted its efforts to the maintenance of QL_14B.
- b. On 4 August, Company C reported that the Bailey Bridge at ZA099299 had collapsed under the load of an M-88 tank retreiver towing an M-48 tank. Company C was immediately diverted from its MSR maintenance mission to removing the damaged bridge, and rehabilitating the existing bypass. The bypass opened with a fair weather capability on 5 August. The two hundred meter typass required the cutting, hauling and placing of 25 meters of cordurey and hauling and placing 300 meters of rock. On 6 August, the 509th Pannol Bridge Company completed emplacement of a 120! Double Bailey Bridge and the readway was again opened to normal traffic.
- o. On 12 August, the maintenance of QL-154 became critical due to heavy seasonal rains. The 584th Company (LE) was committed to maintain 13 kilometers of QL-15W from Camp Enari to the western boundary of the Catecka Tea Plantation: (ZA154326) and placement of crushed rock on critical portions of readway.

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- d. On 15 August, word was received that propowash from a CHAP? helicopter had displaced 480 linear feet of MX_19 runway at Polei Djereng Airfield, (YA8545). On 16 August the second the third platoons of Company B were air lifted to Polei Djereng. By 17 August 30,000 square feet of matting had been re-aligned and reconnected when another CH_47 discomman an additional 435 linear feet of runway. On 18 August a field expedion anchorage system, consisting of 36" "U" shaped pickets and #9 tile wire. Elown in and re-alignment and anchorage were completed on 19 August. platoons had returned to Camp Enari by 20 August.
- e. On 17 August, the 75 TPH Crusher of the 584th Engineer Company (IE) was deadlined for the move to a new quarry site.
- f. On 19 August, the 584th Company Crusher platoon and Company C moved from Danner Quarry (ZA077312) to Wooly Bully Quarry (ZA057315). The 35th Engineer Platoon (Land Clearing) closed Camp Engri with subsequent attachment to 20th Engineer Battalion; VOCO 937th Engineer Group.
- g. On 21 August, the 584th Company's crusher was back in operation and the first squad of the Land Clearing platoon departed for Land Clearing on Hey QL-19E, OPCON 299th Engineer Battalioh (Cot).
- h. On 22 August, the second platoon of Company C returned to Base Camp from Wooly Bully Quarry (ZAO57315) to begin construction of an aircraft control tower for the 4th Aviation Battalion, 4th Infantry Division.
- i. On 23 August, the second squad of the Land Clearing plateon departed for Land Clearing operations on QL 19E, OPCON 70th Engineer Battalian (Cot). The second plateon of Company B replaced the first plateon of Company B at Ban Blech, and continued the mission of airfield maintenance. To date, first plateon had completed upgrading of the bridge at AQ974600 and renovated the access road from May 14 to the Ban Blech Airfield Complex.
- j. On 25 August, the third squad of the Land Clearing Platoon closed Wooly Bully Quarry (24057315) for Land Clearing operations on QL-15W. Security was furnished by three Armored Personnel Carrier's from the First Squadron Tenth Cavalry Regiment.
- k. On 26 August, one squad from the first plateon of Company A was sirlifted to Polei Djereng (YA8545) to provide General Engineer Support to the 5th Special Force. Their mission included the repair of the airfield access road, improve the airfield drainage, and general firebase construction. Also, on this date Company A received the mission to repair the interior road not at Sackson Hole, Foreward Command Post of the First Brigade, 4th Infantry Division, which had become impassable due to heavy seasonal rains. The First Brigade's organic Engineer element responsible for the interior MSR did not

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possess the resources for the project, and the 20th Engineer Battalion ascent the mission. The initial phase of the operation consisted of reopening the drainage systems, installing new drainage structures, and cutting new drainage ditches. Most of this work was accomplished by hand. All standing removed from the roadway and adjacent areas. This was a continuous project as heavy rains continued to fall throughout the operation. The second consisted of removing two to three feet of mud from the roadway, depositing it outside of the ditchline, and restoring an exaggerated drown to the Phase three consisted of placing a 4 to 8 inch lift of crushed rock on the traveled way. During the entire operation, a total of 1,500 cubic yards of crushed rock was placed on the road. The final phase of the operation consisted of maintenance and traffic control, which was necessary until the company departed Jackson Hole. The overall mission was a great success and the MSR remained passable throughout the remaining monsoon season.

- 1. On 5 September, the second platoon of Company B had completed repairs on Ban Blech runnay (A09861) and returned to Camp Emari.
- m. On 7 September, the third squad of the Land Clearing plateon completed clearing 457 agrees on DA 19W and departed Wooly Bully Quarry, (ZAO57315) for Land Clearing operations with the 70th Engineer Battalion on QL-19E.
- n. On 11 September, Company C began anchoring MX-19 matting on Casis Airfield (ZA1027). This project was undertaken due to the problems encounted with the matting on Polei Djoreng Airfield.
- Pailey Bridge at ZA099299 had collapsed at 1830 hours under the load of an Mass tank retreiver. Company C immediately began improving the existing bypass The bypass was opened at 2345 hours and work had already begun on removal of lamaged bridge. The damaged bridge was removed by 161830 September and construction was begun on a Bailey Bridge. The bridge was open to normal traffic on the morning of the 17th.
- Jackson Hole (YA897314) to Wooly Bully Quarry to propare for the eventual relocation of Company A to that location. The first platoon began salvage operations of the damaged Bailey Bridge, to identify usable parts and return to depot stocks.
- q. On 21 September, Company A departed Jackson Hole and closed Camp Enari. Company A began several small base cmap projects which continued until their bivouse was prepared at Wooly Bully Quarry. On this date the supplementary tie down system for the MX-19 matting of Casis Airfield was completed by Company C.

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- r. On 22 September, Company C moved from Wooly Bully Quarry to Camp Enari and Company D (2) moved from Camp Enari to Wooly Bully Quarry Company C assumed responsibility for Company D's Base Camp projects and Co. D assumed responsibility for maintenance of Qualyw. The socond plateon Company D remained in Base Camp and continued operation of the Battalion prefab yard and concrete batch plant.
- s. On 26 September, the 584th Company (IE) was released from the responsibility on QL-19W in preparation for the resumption of Base Camp projects. Also, the third squad of the Land Clearing plateon returned to Camp Enarl and resumed clearing along QL-19W. Clearing operations were scheduled from RJ 14 & QL-19W to the Catecka Tea Plantation on QL-19W.
- t. On 1 October, the third squad of the Land Clearing platoon completed clearing 259 agrees on QL-19W and began work on QL-14S from RJ 14-15 to RJ 14-6C. Security was furnished by a tank platoon (-) from the First Marketing (CR)
- u. On 9 October, the third squad completed clearing from RJ 14-19W to RJ 14-5C. The next mission was Land Clearing operations from RJ 14-6C to the Plei Me Special Forces Camp. A platoon (-) from the First Squadron, 10 Cavalry and a tank platoon from the First Battelion, 69th Armor provided security for the operation. During the operation two graders were attached to the Land Clearing section to shape and ditch the readway. Work was accomplished concurrently with Land Clearing Operations.
- v. On 11 October, Company B's CP and its second plateon, reinforced with earth moving equipment from the Battalien equipment plateon, moved to Plei Do Lim village (AQ974600) to begin upgrading of Route LTL-7B from Plei Do Lim village south—east to BR022020. The scope of the work involved ubgrading the readway from fair—weather to limited all—weather capability and repair of a bridge at BR024019. This was an operational support mission in general support of 4th Infantry Division OPLAN MIDDLETON.
- w. On 13 October, the first platoon (-) of Company B moved to Phu Tuc Airfield to repair the T-17 runway that was ripped open by C-130 prop-wash. Scope of the work involved the patching of a large number of holes and tears in the membrane, and soil gement stabalization of several large soft spots in the runway subgrade.
- 2. On 14 October 1/1/A/ 20, supporting the OMEGA Force at Polei Djereng, returned to Camp Enari. Original scope of work was reported as 100% complete.
- y. On 20 October, Company A's CP and its second plateon returned from LTL-7B MSR upgrading and Bridge Repairs were reported as 100% complete. During

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the mission, 3,170 cubic yards of laterite and 507 cubic yards of crushed rock were placed on roadway, lo kilometers of roadway were graded, 32 of ditchline were dug, one culvert was emplaced, and the treadway on the bridge at BR024019 was replaced.

- z. On 21 October, Company A (.) established Company CP at the Bully Quarry. On this same date, the second squad of Land Clearing operations with 70th Engineer Battalion on Hwy 19E.
- aa. On 22 October, the first squad of the land Clearing plateen completed clearing operations on TL-6C. Total Land Cleared was 2,397 acres. Company C (-) departed Camp Enari and established biveuac area and Command Post at AQ865943 in preparation for MSR upgrading on QL-14S. Company C.(...) deployment was in support of the 4th Infantry Division's Operation MACARIHUR.
- bb. On 24 October, the first platoon of Company A and the third square of the Land Clearing platoon departed Wooly Bully Quarry for Jackson Hole. The overall mission was to clear a 100 meter strip on either side of the MSR upgrade May 14B, and construct a parallel tank trail from Jackson Hole (YA8979)5 to Polei Djereng (YA8545). To accomplish their mission 2 graders, 3 decers, 1.290M with scraper, 1 water distributor, and 1 sheepsfoot reller were attached Security was furnished by one platoon from the First Squadron, Tonth Armored Cavalry Regiment. Also on this date, the second squad of the Land Clearing platoen departed Camp Enari for Wooly Bully Quarry to begin clearing farm land around the Edap Enang resemblement village (ZA033312). Scope of Work was to clear approximately 2,000 acres for cultivation.
- ec. On 25 October, Company C (a) departed bivouse at AQ865943 and returned to Camp Eneri. MSR maittenance in support of Operation MACARTHUR was reported as 100% complete. 1/C/20 redeployed to Ban Bloch (AQ9861) to begin work on upgrading the existing airfield and to provide general engineer support to CP 2nd Bde. 4th Infantry Division.
- dd. On 28 October, the first platoon of Company B returned to Hase Camp having completed repair of T-17 membrane at Phu Tuc Airfield.
- ee. The mest important operational support mission of this Battalian has been the maintenance of the 4th Division's CL-19W LOC from Camp Enari west to Duc Co, and Hay 14B from Chalfw to Lackson Hole. Maintenance of this 55 kilometers of reading, during the mensoon season consisted of 150 kilometers of grading, 52 kilometers of ditching, 10,000 cubic yards of crushed rock, 10,000 cubic yards of laterite, and the emplacement of 16 culverts. This project required the efforts of at least two companies during the entire report period.

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6. Training:

- a. The Battalions basic 2 hours per week manditory training is supplemented by an ambitious on-the-job training program, and special courses conducted by higher headquarters.
- b. During this report period this Battalion has begun an operator training course consisting of the following instructions
- (1) One day of classroom instruction of safety, operator's maintenance, RVN law and international road signs, log book forms (TEARS), and the use of various TM's, LO's and the DA form 2404.
- (2) One day of practical exercise on operators maintenance, serviceability criteria, maintenance check points and preventive maintenance indicators.
- (3) One day of OJT driving in RVN accompanied by an experienced operator.
- (4) On the final day the operator is given a road test and writing

7. Supply:

a. During this report period, the Battalion decreased its Class
N construction material receipts and issues as compared to the previous
reporting period. The following quantities of basic construction materials
were placed on requisition in support of approved construction projects.

Cement: 20,426 BGS lumber: 1,044,489 BF Nails: 25,411 LBS

b. In addition, the following specific materials were received and assued for base development at Camp Enari and for operational support within the 4th Infahtry Division Area of Operations.

TTEM	RECEIVED	ISSUED
lx6x RL	194,120 BF	211,480 BF
lx8x RL	57,840 BF	326 EE0 BF
2x4x RL	1,160,006 BF	555,268 BF
6x6x RL	96,352 BF	98,734 BF
6x8x RL 8x8x RL	42,840 BF	49,512 BF
8x8x RL	22.187 BF	46,027 BF

Construction of personnel bunkers and towers meessitated the requisits.

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ioning of large amounts of timber! Though not finished, due to the shortege of these timbers, the project is approximately 90% complete.

- c. During the months of August and September, the Sattalion's lumber yard became impassable due to the amount of rain received and the heavy of traffic. De tractors were utilized to pull vehicles in and out of to facilitate leading and unleading operations. The only naterial interpretation of equipment able to maneuver in the yard was the 20 tenerough terrain or Holes and ruts up to three and four deep were experienced and slowed downerations considerably.
- d. Barrel hooks were fabricated allowing the crane to swing four 55 gallon drums in one pass. This allowed for the rapid unloading of 5,310 drums of peneprimo received during this period in anticipation of the dust which is due to follow the monsoon.
- e. Major repairs of the existing T-17 membrane hirstrip at Ban Bloch and upgrading of the 6 km's of access road from Route 145 to the airfield, necessitated moving vast quantities of POL, rations, T-17 membrane, T-17 adhestive, and other supplies from Camp Entri to Ban Bloch, RVN. Coment for soil stabilization and compaction equipment to include sheet foot and 13 wheel rollers were also included. During the period 1 August 67 to 5 September 67, over 75,000 punds of equipment and supplies were airlifted to construction sites by CH-47 helicopters.
- f. The Battalion water point teams continued their support of combat operations and Camp Enari. During this reporting period the two operational water points produced a total of 1,553,467 gallons of potable water. The water point located at Camp Enari produced a daily average of 15,043 gallons of cotable water. Non-availability of repair parts deadlined two other 1,500 GPH water publification sets during this reporting period. Some difficulty was experienced with the 10 kW Kurtz-Root generator?

8. Medical:

- a. During the quarter 2,414 out patients and 54 quarters patients were treated in the Battalion Aid Station.
- b, Periodic checks of personnel shot records are carried out both in the Battalian Base Camp and in the field in order to maintain a suspense file on immunizations that is up to date and insure adequate and timely immunizations of all personnel.
- of A command letter was put out in August 1967, Stablishing a stard and procedure for the calling of Air Medical Evacuation. This insures that the

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Battalion Surgeon is notified of the need for a Dust-Off and procludes the use of Dust-Off in cases that do not warrant an immediate evacuation.

d. Through the activities of the Battalion Civil Affairs on near-by villages, the Battalion Surgeon has reported that the vill now more recontive to the idea of leaving their villages and coming Battalion Aid Station for emergency medical treatment. A great step in this Bättalion's Civic Action program!

9. Communications:

- a. During this period it has been noted that AN/rRC-25 Radio sets were being turned in with the internal parts corroded. Corresion had been coused by water seeping into the sets. It was found this situation could easily be corrected by the unit radio mechanic making periodic checks of the internal parts of the sets and by the operators checking the casing screws for tightness.
- b. Another important factor noted during this period was the fact that antenna elements were rusting together because of lack of maintenance. This situation was easily taken were of by periodically taking all antenna sections apart and lubricating them.
- c. It was also noted that radio sets that initially were in perfect working condition, were insperative after being transported to the using units. This situation was remedied by packing the sets in crates or wrapping them is material to cushion them against sudden shocks which could knock them out of adjustment.
- d. All personnel concerned were notified of the above and to take caution in handling signal equipment.

10. Maintenance:

- a. Supply of repair parts continues to remain the major problem in this field. Direct exchange items such as generators, voltage regulators, brake cylinders, and brake shoes for all types of vehicles remain in short supply. In many instances, items placed on Red Ball requisition have taken longer to receive than the same item requisitioned for PLL replacement on the the standard priority. Lack of these repair parts in all echelons of maintenance has been a major cause of excessively high deadline rates.
- b. During the monsoon season it was found that proper lubrication was difficult because of caked mud in and around fittings. As a result grease could not be properly injected and fitting became jammed and had to be replaced.

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For this eason a 55 gallon drum and hand rumped fire extinguisher were made available at all lubrication points to clean grease fittings. This prohas reduced lubrication problems significantly.

c. The most critical maintenance shortages reported by the Engineer Company (IE) was the non-availability of the 17 foot hydre used to connect the 18 cutic yard scraper to the D7E tractor. This is resulted in the deadline of five scrapers for nearly a year.

Section II, Part I Observation's (Lessons Learned)

1. Personnel:

.. a. ITEM: Re-assignments.

notate are held in the Battalion until they receive reassignments orders. Can have occured where personnel are held over their DEROS dates because of lack of orders.

OBSERVATION: If reassignment orders were issued earlier, it would give the personnel section greater flexibility in scheduling port calls and prevent personnel from being held beyond their DEROS. A policy could be established that any personnel not receiving reassignment orders within a certain time before his DEROS is automatically reassigned to a replacement station within CONUS.

b. ITEM: Land Clearing Platoon Personnel Authorization.

Clearing Platoon leaves several necessary positions unfilled. Since the platoon frequently aperates as three seperate squads, the platoon leader has a major problem in keeping track of the unit property and obtaining needed supplies. The number of dozer operators provided the platoon has proved insufficient. The additional operators (15) provided above the number of dozers are barely adequate. An operator may work a dozer unassisted for 2 - 3 weeks with he relief. This has proved to be very hard on the operators.

observation; The section is badly in need of administrative personnel. A second officer is meeded to act as "Executive Officer" to handle the many supply and administration problems the plateon encounters. A clerk/typist is needed. A supply sergeant is necessary to keep track of TA equipment and to coordinate with the S-4 of the supported Battalion. Replacement operators should be assigned on a timely basis.

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c. ITEM: Shortages of operators for non-standard equipment.

four 20 ton Euclid Dump Trucks, the eight operators necessary for the iclos had to be taken from other vehicles causing a shortage of epo authorized TOSE equipment.

OBSERVATION: Recommend that when non-standard equipment over and above the TOSE authorizations additional operators be authorized operate the equipment.

2. Operations:

a. ITEM: Maintenance of interior MSR's during mersoon season.

DISCUSSION: Maintaining roads during the monsoon season is a difficult task. In some situations, nothing short of a major engineer effort is required to insure uninterrupted logistical support to forward areas. On 15 August 67 Company A raceived the mission of reopening an Infantry Brigade interior road net (MSR) which had become impassable to all traffic. The 600 meter stretch of impassable road was caused by: (1) continously heavy vehicularisfic and rain; (2) an inadequate draining system; (3) lack of recessary day, road maintenance; (4) inadequate traffic control; and (5) lack of command intenset. This situation necessitated an extensive aerial resupply effort which rould have been avoided.

OBSERVATION: If interior MSR's are to remain passable during the mansoon season, detailed planning must be completed prior to the beginning of the rains. Experienced engineers should make a detailed survey of the drainage system, and necessary additions or repairs should be made before the rain starts. Engineers and Military Police must coordinate to determine a workable and effective control plan for the area. Staffs should develop a comprehensive COP to determine supply priorities under various read conditions. Once the monsoons begin, the traffic control plan along with necessary traffic regulations should be put into effect and rigidly enforced. The responsible engineer unit should insure that continues read maintenance is performed. Command interest is a must if the aforementioned plans are to effective.

b. ITEM: Soft spots under T-17 membrane.

DISCUSSION: All soft spots this unit has encountered during repair of T-17 membrans runways in the monsoon season have been caused by rips and tears in the membrane, allowing water to seep into, and become trapped under the membrane. A quick way was needed to dry or stablize the soft areas.

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OBSERVATION: Portland coment was mixed with the soil in the soft areas and the soil became firm with hydration of the coment. The T-17 membrane was then resealed.

c. ITEM: Drainage

<u>DISCUSSION</u>: Construction of a 177° x 192° aircraft hangers started in the monsoon senson. 11,000 cubic yards of soil had to be to reach pad elevation. Because of this cut and the problem of runoff, tremely effective draining plan was hocessary.

USERVATION: A series of torraces with interceptor ditches was used. This drainage system enabled construction to go on inspite of the monsoons. Drainage was always given top priority, and as a result construction progressed smoothly during the entire monsoon season.

d. Mam Anchorago of MX-19 Matting.

<u>DISCUSSION</u>: When a CH_47 displaced a parties of MX-19 runway at Polei Djereng, it became apparent that some immediate type of anchorage system would have to be devised. The factory losigned anchorage system was not immediately available, and when available had not been effective in the soils found in the Central Highland region of South Vistnam.

The first consisted of short pigtail pickets with a small bearing plate welded to one end of the picket. The picket was screwed into the ground until the bearing plate came down flat on the sannel. It was found that the pigtail pickets had a tendency to work loose. The second method tried utiles standard 36" "U" pickets. Two holds were drilled in the matting at a pannel junction along the runway outer edge. The holes were two inches from the out edge of the runway and about two inches from the mat junction on either side. The icket was driven into the ground at the mat junction. When the picket was rost of the way in, #9 guage wire was run through the holes in the two pannels and attached to the picket. The wire was then tightened by driving the picket in the ground. Any portion of the picket remaining above the ground was then bent flush with the ground. The decision to utilize the second anchorage system was made after both methods were tried on Poloi Djorong Airfield. Anchors were placed on each pannel junction. After several weeks of C-130 traffic, the anchorage was found to be holding with no lifficulty.

e. ITEM: Lifting of circraft hangar rafters.

Company. It has an unsupported span of 132°. The erection instructions do

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not specify a method for lifting the rafters in place. It only states to assemble the rafters together and set them on the column. Initially, it was tried to assemble the entire rafter on the ground and with 2 each 20 to cranes with 50° booms raise the complete rafter into place. This method of erection failed because the rafters would bend under their own weight were lifted.

OBSERVATION: The rafters were picked up in two sections. A 20 ton crane was required to held each section. At the peak of the rate a third crane was used to bolt the connections. To pick up each half refter, the two end wall columns were used as spreader bars. This method (see diagram) was very successful and ne further difficulties were encountered in erecting the steel.

f. ITEM: Production of crushed rock during the monsoon.

DISCUSSION: Production of rock during the mensoon was greatly hampered by mud clogging the jaws and screens in the crusher.

ORSERVATION: This problem was solved by utilizing 4 air operated sump pumps to pump water from a mearby stream into the beds of the trucks hauling blast rock to the crusher. This removed and softened the mad. The grizzly removed the remaining mud. The lower screens were removed so that all material falling through the grizzly were carried away on waste conveyors.

g. TEM: Traffic Control.

<u>DISCUSSION</u>: During replacement of two destroyed bridges, a large quantity of vehicles and equipment tended to accumulate at the bridge site. The resulting congestion was a problem, delaying construction progress and passage of convoys through the bypass.

OBSERVATION: A method was used to eliminate the problem, whereby all vehicles and equipment not immediately required were assembled in a secure area approximately I mile from the bridge site and held there until required in the construction process.

h. ITEM: Bridge Maintenance.

DISCUSSION: A Class 55 Bailey Bridge (120' Double Double) collapsed on 17 August 1967 as a VTR (Class 55) was crossing. The count cause of the bridge failure was unknown, but the mud which had accumulated on the bridge was undoubtedly a contributing factor to the collapse of the bridge.

OBSERVATION: Bridge maintenance must include a vigorous program of keeping mud cleared from the bridge deck during the monsoon season.

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i. ITEM: Concrete Transportation

DISCUSSION: During construction of a crusher headwall, quantity of concrete (7 cubic yards) was needed for a footer. The construction site was approximately a 2 hour drive from the nearest batch plant sing transportation of a mix with water impractical. The mix could have been prepared at the site by hand but this method would have been very time consuming.

OBSERVATION: Problem was solved by preparing a "cake mix", consisting of pre-mixed concrete, sand, and aggregate which was transported to the job site dry in 5 ton dump trucks. Water was then added in the truck bed at the job site.

J. ITEM: Road maintenance

<u>DISCUSSION</u>: Route 19W is a road consisiting of a lateric soil cap over an old French base which hold up well during the early stages of the recent monsoon season. During the later stages, however, several areas doteriorated rapidly due to tracked vehicles generating non-flowing mud, which rapidly closed the small "V" ditches, flooding the road and further complicating the road maintenance problem.

OBSERVATION: Large 290M ditches must be constructed along the lateric soil reads common in the central highlands if tracked vehicles are to continue to use the reads the year round. In areas where right of way restrictions or constrictions preclude construction of large ditches, crushed rock or a suitable substitute must be used to protect the soil read cap.

k. ITEM: Shortago of compaction equipment during the construction season.

DISCUSSION: The combat engineer battalion, with its attached light equipment company, has the capability of hauling and placing more earth than it can effectively compact to maintain the desired continuity of progression of the haul, placement, and compaction phases of construction. It has been found from experience that the rate of dry weather horizontal earth construction is limited to the pace of effective follow up compaction. The in place haul capability is greatly out of proportion to the compaction capability.

OBSERVATION: One solution to the problem would be to transfer compaction assets from engineer units operation in wet weather areas to engineer units operating in dry weather areas. During the central highland monsoon season (late May - mid October) the 20th Engineer Battalian's compaction equipment wallowed in rivers and pools of mud; the equipment sat idle and inoperative for the better part of FOUR MONTHS. A local solution to the

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problem, within the 18th Engineer Brigade area of operations, would be to transfer compaction assets between the 937th Engineer Group (Cbt) (Central Wightends area) and the 45th Engineer Group (Const) (Coastal area). Two engines that have exact opposite climatic construction season, but only separate by 80 miles of read.

1. ITEM: Non availability of cartridges and stud mails for R.MSET guns.

DISCUSSION: It has often been noticed that in the construction of wood frame buildings anchor bolts are used to secure wall section selection selection concrete pads. From necessity, anchor bolts are consumed in great quantities with total disregard to unit cost and actual suitability. 13" anchor colts are often cut to fasten a 2" x 4" sole plate to a 4" concrete pad. The RAMSET gun is TORE to the combat and construction battalians. One of the designed uses of the ramset gun is to fasten wood to concrete with a nail stud. Nails and cartridges, however, are apparently not available or non existent in the supply system. It would be interesting to note the comparative costs of a single case of hardened steel anchor bolt, 18" in longth vs a 22 cal cartridge and single nail stud!

- 3. Training and Organization:
 - a. ITEM: Driver education

DISCUSSION: A Bailey Bridge (class 55) on Route 19W collapsed on 3 August 1967 as a VTR pulling an M48A3 tank (total class 193) attempted to cross. Although the bridge was conspicuously posted as a class 55, the VTR driver was unaware of the significance of the sign.

OBSERVATION: Driver education should include emphasis of the significance of bridge classification versus vehicle classification.

b. ITEM: The Mini Anti-Vehicular Mine

DISCUSSION: During past months, this battalion has been directly or indirectly involved in over thirty incidents involving the removal or detruction in place of anti-vehicular mines placed by enemy forces. Slightly over 80% of those mines have been recovered, and without exception, the mine has proven to be of the Mi-1 variety, usually with a five to eight soun! beester charge of Chicom TMT. In spite of the frequent use of this type of mine in this area, field or technical manuals explaining the design and characteristics of this mine have either not been disseminated or are in very short supply. While this weapon has been out of the Army Supply System for a number of years, it is still necessary that personnel be trained in its characteristics.

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enemy forces in some areas of RVN. It would be of considerable assistance to unit commanders if USARV and USAECV would publish a bulletin which could be used as a guide to train personnel in the design and characteristics of this mine.

4. Intelligence:

a. ITEM: Reconnaissance updating

OBSERVATION: Due to adverse weather conditions and wide variance in heavy traffic density, engineer reconnaissance files were found to need complete updating monthly. This became apparent when over a time period of a few days a road in good condition was found to have become completely impassable. Aerial recons have proved invaluable for this task.

b. ITEM: Reconnaissance Socurity

CASERVATION: With requirements for recommissance in unsecure areas, it has been found that tracked vehicles are a must for security. A minimum of two fully tracked vehicles (M113) should be assigned to the recomsection of each combat battalion.

c. ITEM: Eiffel Bridge classification

OBSERVATION: The Eiffel Bridge classification card, MACV Form 9, 14 Aug 67, is inadequate to classify the many types of Eiffel bridges the countered. Variation in types of steel utilized in construction introduces problems in arriving at exact classification. Best results so far have been obtained utilizing the bridge classification card and a bridge sketch.

- 5. Logistics: None
- 6. Maintenance:
 - a. ITEM: Lubrication periods during the mensoon.

OBSERVATION: Lubrication periods in this area during the monsoon were reduced to 100 = 125 miles after inspections rovealed that soupy mud was working into the bearings and mixing with the grease. This was especially critical on the M-151, 4 ton truck, which needed bearings repacked weekly.

b. ITEM: D7E dozer modification.

DISCUSSION: Foot throttle linkage on the tractor, full tracked,

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Catapillar model D7E was found to be binding, causing the foot throttle to be insperable. A check on all equipment revealed that some of the shefts were not chrome plated allowing them to rust and bind-up.

OBSERVATION: It was found that drilling a hole through linkage, tapping it, and installing a lubrication fitting eliminated this. An equipment improvement request was submitted recommending the above ment or replacement of the shaft with a chrome plated shaft.

c. ITEM: 290M

DISCUSSION: Hydraulic fluid revervoir on tractor wheeled, Clark 290M, was found to have an excessive amount of pressure build up during normal operations. If the cap was removed for "after operational" checks, the operator would receive a hot oil bath.

product of friction and induced heat causing vapor and fluid expansion and is necessary to insure against pump cavitation. The pressure is therefore vital and the only way to prevent this from causing harm to an operator is to brief every man thoroughly on this procedure of loosening the cap to allow pressure to be released and them removing it to check oil level. An equipment improvement request has been submitted to install a valve in the cap that would allow pressure to be released by the operator prior to removing the cap.

FOR THE COMMANDER:

Incl

1-Spreader Bar Design for Lifting Large Beams

2_MX_19 Anchorage

DISTRIBUTION:

2_CG, USAP, ATTN: GPOP_MH

3_CG, USARV, ATTN: AVCLDH 6_CG, USARCV (P), ATTN: AVCC_BC

5-CO, 937th Engr Gp (Cbt)

1-File

15-Reference

Villan E Johan Ra WILLIAM J. KAKUREKA

1LT, Œ Adjutant

23

EGC-CO (13 Nov 67)

1st Ind

SUBJECT: Operational Report - Lessons Learned (RCS CSFOR-65), for Quarterly
Period Ending 31 October 1967

DEPARTMENT OF THE ARMY, HEADQUARTERS, 937TH ENGINEER GROUP (COMBAT), APO 96318, 21 November 1967

TO: Commanding General, 18th Engineer Brigade, ATTN: AVBC-C, APO 96377

- 1. The subject report, submitted by the 20th Engineer Battalion (Combat), has been reviewed and is considered an accurate report of organizational activities.
- 2. I concur in the observations and recommendation of the Battalion Commander.

R. C. MARSHALL Colonel, CE Commanding

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AVEC-C (13 Nov 67) 2nd ind CPT Storat/jah/DBT-163
SUBJECT: Operational Report - Lessons Learned (RCS CSFOR-65), for
Quarterly Period Ending 31 October 1967

Headquarters, 18th Engineer Brigade, APO 96377

2 8 NOV 1967

1 Clair

TO: Commanding General, U.S. Army Engineer Command, Vietnam (Prov), ATTN: AVCC-P&O, APO 96375

- 1. This headquarters has reviewed the report submitted by the 20th Engineer Battalion (C) (A), as indersed, and considers it an accurate description of the unit's activities and accomplishments during the reporting period ending 31 October 1967.
- 2. Concur with the observations and recommendations of the Battalion Commander, and the Group Commander's Indorsement with the following comments added:
- a. Reference Section II, Part I, para lc. Standardised MTOE 5-114D submitted to USAECV(P) on 20 October 1967 recommended additional personnel to provide for 2 shift operations of Euclid Dump Trucks.
- b. Reference Section II, Part I, para 2k. The coastal monsoon season (4 months) does not prevent horizontal work during the entire period. There are days and even weeks when much work can be accomplished. Although temporary lateral transfer of specific pieces of compaction equipment may be directed by this headquarters based on overall work priorities, it is felt that transfer of all compaction assets based on monsoon seasons is not desireable. This headquarters does, however, concur with the Battalion Commander's commont concerning haul capability being greater than compaction capability in the combat battalion. Standardized MTOE 5-36G submitted to USAECV(P) on 20 Oct 67 requested additional towed compaction equipment for a combat engineer battalion.

HAROLD J. ST C

Colonel, C. Deputy Commander

AVCC-P&O (13 Nov 67)

3d Ind

SUBJECT: Operational Report-Lessons Learned (RCS CSFCR-65) for Quarterly Period Ending 31 October 1967

HFADQUARTERS, UNITED STATES ARMY ENGINEER COMMAND VIETNAM (PROV), APO 96491

21 DEC 1967 Commanding General, United States Army Vietnam, ATTN: AVHGC-DH, APO 96375

The subject report, submitted by the 20th Engineer Battalion, has been reviewed by this headquarters and is considered adequate.

a. Reference: Sect II, Part 3, para 6, page 21. Item concerning the MIAI Antivehicular Nine. Information available to this headquarters indicates frequent use of the Chicom Antitank Mine similar in appearance to the World War II MIAl antivehicular mine to include US type markings.

b. Major commanders have been advised of the existence and characteristics of these mines.

FOR THE COMMANDER:

RICHARD B. BIRD

Captain, AGC

Assistant Adjutant General

Cys Furn:

0G, 18th Engr Bde

00, 937th Engr Gp 00, 20th Engr Bn

THIS PROTECTIVE MARKING IS CANCELED ON 1 JAN 70

AVHGC-DST (13 Nov 67)

4th Ind

SUBJECT: Operational Report-Lessons Learned (RCS CSFOR-65), for Quarterly

Period Ending 31 October 1967

HEADQUARTERS, UNITED STATES ARMY VIETNAM, APO San Francisco 96375 28 JAN 1968

TO: Commander in Chief, United States Army, Pacific, ATTN: GPOP-DT, APO 96558

1. This headquarters has reviewed the Operational Report-Lessons Learned for the period ending 31 October 1967 from Headquarters, 20th Engineer Battalion (Combat) (AZ2A) as indorsed.

2. Pertinent comments follow:

- a. Reference item concerning reassignments, page 16, paragraph 1: Nonconcur. It is recognized that the late receipt or non-receipt of assignments prior to DEROS causes personal inconveniences. This headquarters makes every possible effort to obtain a firm unit of assignment for each individual departing this command. The existing CONUS reassignment policies of this headquarters permit the return of personnel to a CONUS Returnee/Reassignment Station when it is not possible to obtain an assignment before the individual's DEROS. Personnel are not to be held in this command beyond their DEROS.
- (1) This headquarters has initiated procedures to provide each major commander with machine prepared assignment instruction listings or sequentially numbered assignment instruction letters for individuals assigned to his command. Each commander is also furnished a listing of those individuals for whom assignment instructions have not been received 30-60 days prior to the beginning of DEROS month for verification and return. These listings provide for closer control of these personnel and identify individuals on whom special attention should be focused by DA, this headquarters and the major commander. Additionally, a copy of assignment instruction machine listings are forwarded directly to battalion level from this headquarters to expedite notification to the individual.
- (2) Further improvements of assignment procedures can be made by Headquarters, Department of the Army, Office of Personnel Operations, in providing more timely notification to this headquarters of individuals assignments. All assignments should be received at this headquarters not later than 30 days before rotation month.
- (3) Special attention by the 20th Engineer Battalion and the Engineer Command to insure that eligible personnel are reported for reassignment at the proper time will also greatly assist in solving this problem.

AVHCC-DST (13 Nov 67)

SUBJECT: Operational Report-Lessons Learned (RCS CSFOR-65), for Quarterly Period Ending 31 October 1967

- b. Reference item concerning nonavailability of cartridges and stud nails for RAMSET guns, page 21, paragraph 1. The actions listed below, which were previously taken, will improve the availability of subject items.
- (1) 1st Logistical Command has included the $\frac{1}{2}$ " diameter stude as an ASL item and stockage will be dependent on usage. The stude are on requisition and the availability date is unknown.
- (2) .22 caliber cartridges are on requisition for the RAMSET gun and are presently due in-country.
- c. Reference item concerning driver education, page 21, paragraph 3a. The commander's discussion and observation of this item has been examined. This office monitors the safety aspects of USARV driver training programs, however, the actual conduct of driver training and follow-up supervision is the responsibility of the commander.
- 3. A copy of this indorsement will be furnished to the reporting unit through channels.

FOR THE COMMANDER:

JOHN V. GETCHELL
Captain, AGC
Assistant Adjutant General

Copy Furnished:

HQ, 20th Engr Bn (Combat) HQ, US Army Engr Comd GPOP-DT(13 Nov 67)

5th Ind

SUBJECT: Operational Report for the Quarterly Period Ending 31 October

1967 from HQ, 20th Engr Bn (UIC: WAZ2AA) (RCS CSFOR-65)

HQ, US ARMY, PACIFIC, APO San Francisco 96558 16 FEB 1968

TO: Assistant Chief of Staff for Force Development, Department of the Army, Washington, D. C. 20310

This headquarters has evaluated subject report and forwarding indorsements and concurs in the report as indorsed.

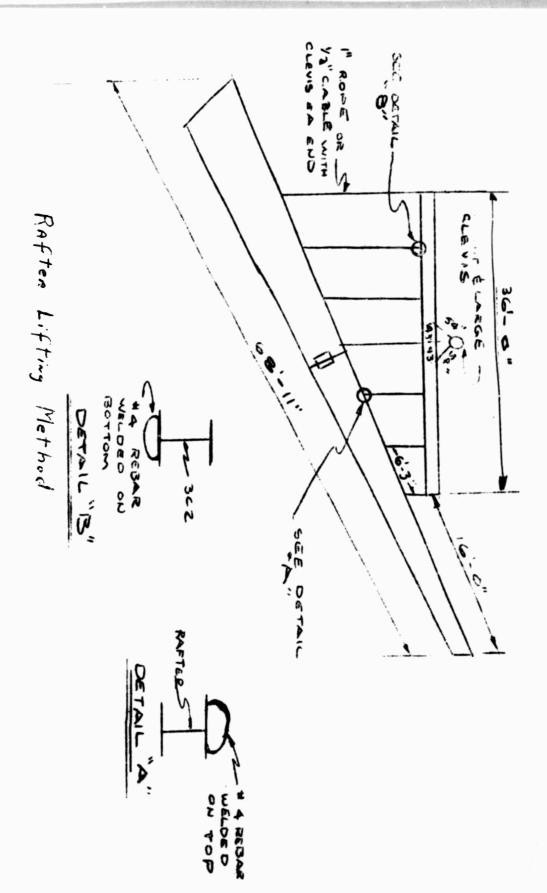
FOR THE COMMANDER IN CHIEF:

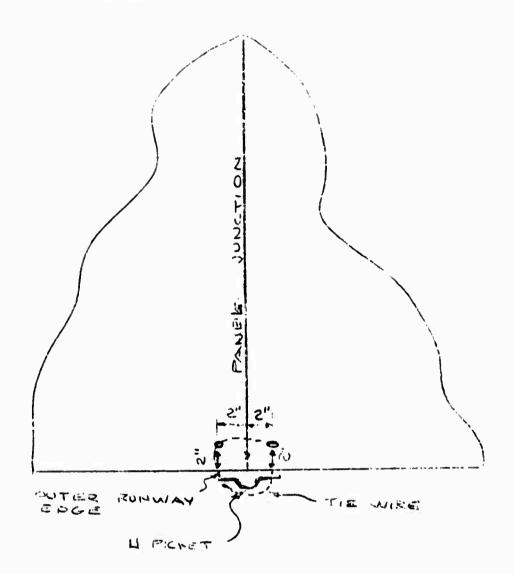
K. F. OSBOURN

I Cishana

MAJ, AGC

Asst AG





MX-19 Anchorage

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d.				
10. DISTRIBUTION STATEMENT				
II. SUPPLEMENTARY NOTES	12. SPONSORING M	IL(TARY AC	CTIVITY	
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